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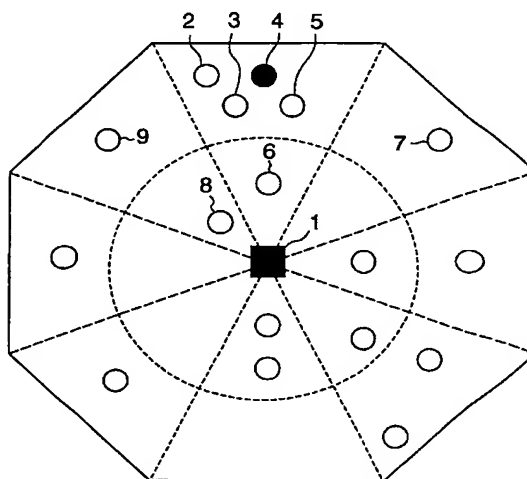
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(54) Title: MULTI-USER DETECTION IN MOBILE TERMINAL FOR REDUCING INTERFERENCE



(57) Abstract: Interference cancellation in a mobile terminal (4) in telecommunication systems like Direct Sequence - Code Division Multiple Access systems or DS-CDMA systems can be improved by providing the mobile terminal (4) with a multi-user detector (41,42,43). These multi-user detectors require the spreading codes of other mobile terminals (2,3,5,6,7,8,9), which spreading codes are available in base stations (1) and thus need to be sent to said mobile terminal (4). By further transmitting power information of other mobile terminals (2,3,5,6,7,8,9) to the mobile terminal (4), a selector (52) can make an intelligent selection in said mobile terminal (4) and select the most important spreading codes thereby reducing the computational complexity. By locating a selector (22) in a base station (1), an intelligent selection can also be made in said base station. Preferably a selection is made per antenna sector and/or in dependence of antenna sectors, in which case direction information of other mobile terminals (2,3,5,6,7,8,9) need to be used.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, INSPEC, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 18029 A (VADGAMA SUNIL KESHAVJI ;FUJITSU LTD (JP)) 30 March 2000 (2000-03-30) abstract; figures 1,3-5 page 2, line 8 -page 3, line 28 page 6, line 23 -page 7, line 16 page 9, line 8 -page 11, line 35 page 17, line 2 -page 24, line 11 ---	1-12
X	WO 01 58041 A (INTERDIGITAL TECH CORP) 9 August 2001 (2001-08-09) abstract page 4, line 2 -page 6, line 12 --- -/--	1,5,7,9, 11,12



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MOSHA VI S: "MULTI-USER DETECTION FOR DS-CDMA COMMUNICATIONS"</p> <p>IEEE COMMUNICATIONS MAGAZINE, IEEE SERVICE CENTER. PISCATAWAY, N.J, US,</p> <p>vol. 34, no. 10,</p> <p>1 October 1996 (1996-10-01), pages 124-136, XP000694489</p> <p>ISSN: 0163-6804</p> <p>the whole document</p> <p>-----</p>	1-12

INTERNATIONAL SEARCH REPORT

information on patent family members

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